

Cross section of surface-micromachined high-pressure sensor

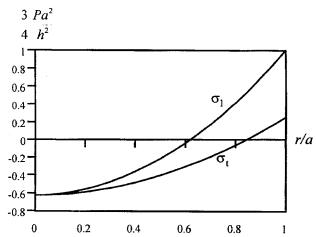
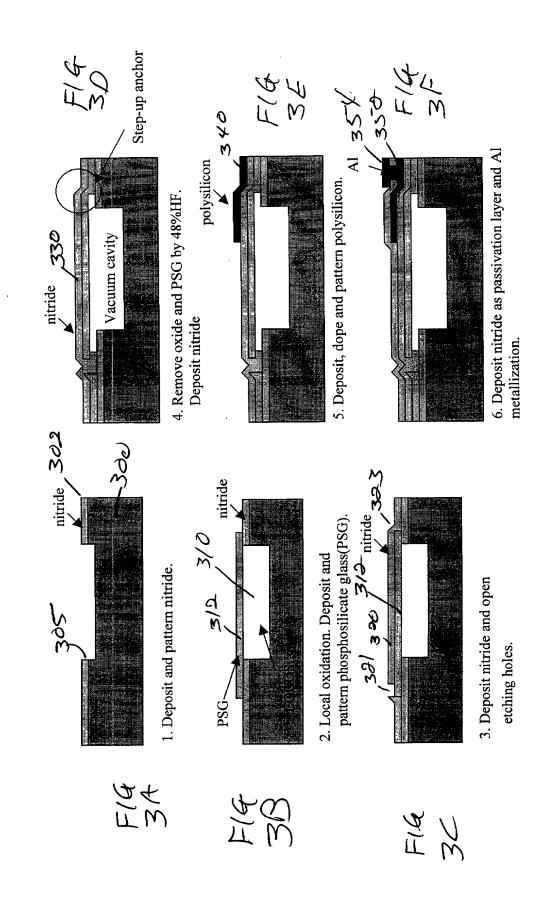
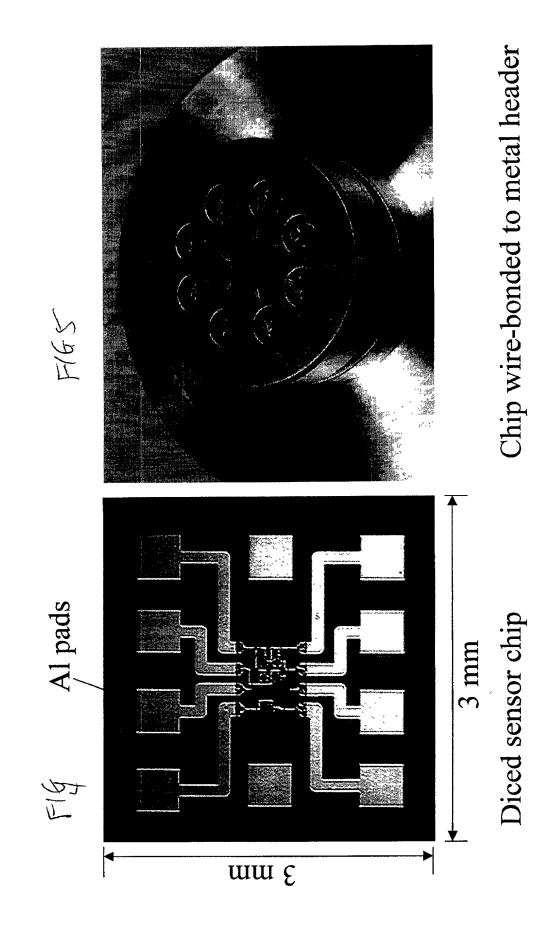
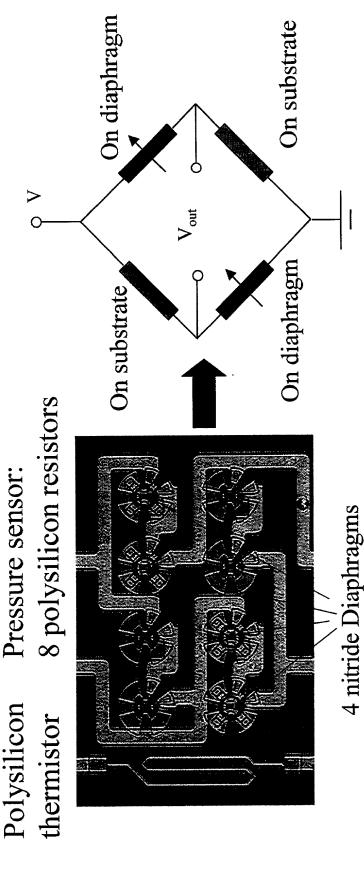


Figure 2 Longitudinal and transverse stress distribution along radius of a circular diaphragm.



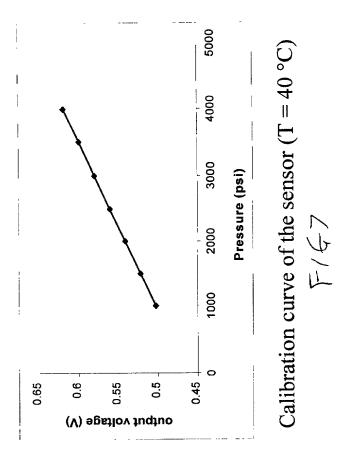


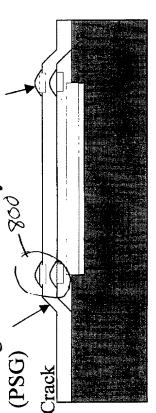


Wheatstone bridge

Multi-diaphragm configuration:minimize self-heating effectmake layout much easier

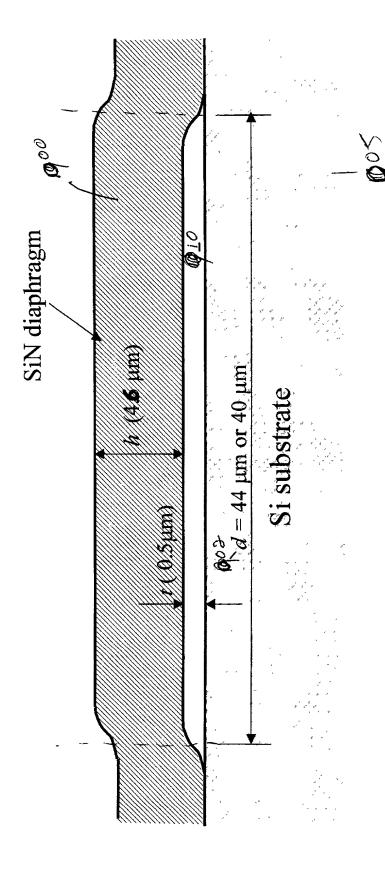
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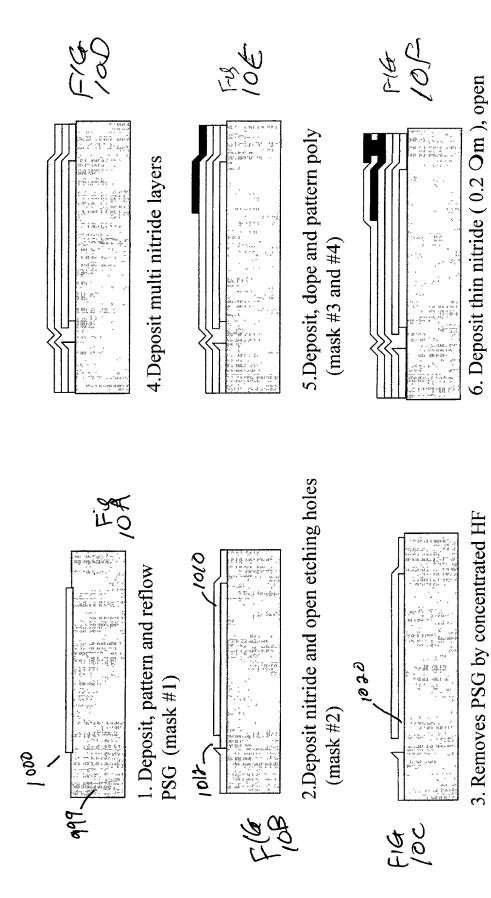


Cross section of sensor diaphragm

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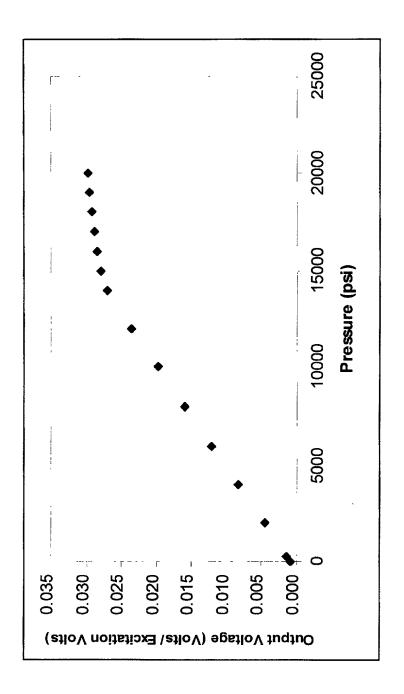


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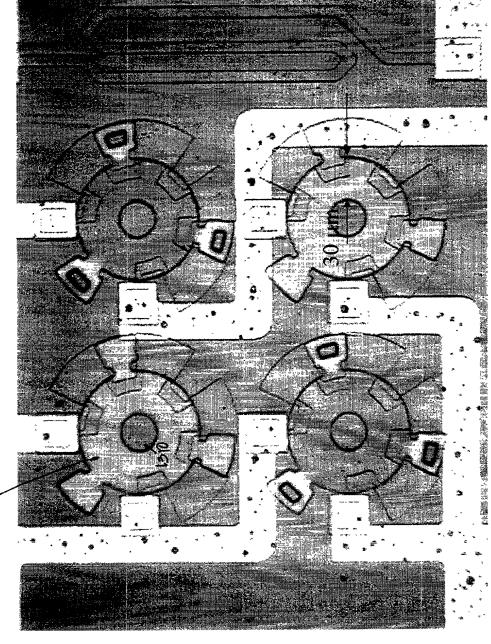


contact holes, and Al metalization

(mask #5 and #6)

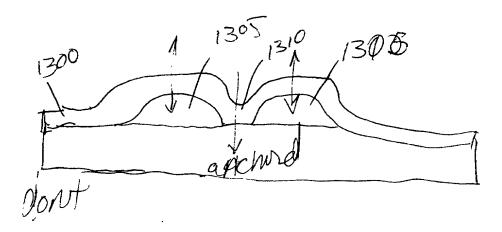


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